

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/936,500	WOLGE, HAKAN	
	<b>Examiner</b>	<b>Art Unit</b>	
	Susan Y. Chen	2161	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 08/05/2005.
2. ☒ The allowed claim(s) is/are 1-3 and 5-15.
3. ☒ The drawings filed on 8/5/05 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)                                  |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date <u>10/24/05</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment  |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance                         |
|   | 9. <input type="checkbox"/> Other _____.   |

***Response to Amendment***

This office action is in response to the amendment filed on 08/05/05.

Claims 1-3, 5-15 are pending for examination, claim 1 has been amended, and claim 4 has been canceled.

**EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with applicant's attorney Richard Kim on Oct. 24, 2005.

The following is the amendment changed by the examiner:

Claim 1. (Currently Amended) A computer implemented method ~~for~~ to facilitate data fusion for building a final multi-dimensional cube data structure by extracting information from a database, which comprises a number of data tables containing values of a number of variables, each data table consisting of at least one data record including at least two of said values, said information being

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extracted by evaluation of at least one mathematical function operating on one or more selected calculation variables, said extracted information being partitioned on one or more selected classification variables, characterized by the steps of:

initially assigning a different binary code to each unique value of each data variable in said database and storing the data records in binary-coded form in created internal table structures;

identifying all data tables containing at least one value of one of said selected calculation or classification variables, such data tables being boundary tables;

identifying all data tables that, directly or indirectly, have variables in common with said boundary tables and connect the same, such data tables being connecting tables;

electing a starting table among said boundary and connecting tables;

building a conversion structure that links values of each selected variable in said boundary tables to corresponding values of one or more connecting variables in said starting table;

evaluating said mathematical function for each data record of said starting table, by using said conversion structure to convert each value of each connecting variable into at least one value of at least one corresponding selected variable; and

generating [[a]] said final data structure based on said evaluation, said final data structure containing an extracted result of said mathematical function for every unique value of each classification variable; ~~and~~

~~initially assigning a different binary code to each unique value of each data variable in said database and storing the data records in binary-coded form.~~

### ***Allowable Subject Matter***

Claims 1-3 and 5-15 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 1 and 15 are allowable because the prior art on record or that encountered in searching for the invention, fails to disclose or suggest the features of instant invention – a data fusion facilitating processing that initially assigning a binary code to each unique value of the data variable in the database and stored the data records in binary-coded form in the created internal table structures and electing a starting table from the associated boundary and connecting tables of the database for a set of selected calculation variables of the at least one mathematical function to build a conventional data structure that links values of each selected variable in the boundary tables to corresponding values of the connecting variables and generating a final multi-dimensional cube data structure base on the evaluation of the mathematical function for every unique value of each selected and partitioned classification variable in a combination as claimed by applicant.

Claims 2-3 and 5-14 respectively depend on claim 1, therefore, are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Y Chen whose telephone number is 571-272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan Y Chen  
Examiner  
Art Unit 2161

October 24, 2005

  
**UYEN LE**  
**PRIMARY EXAMINER**